

FIG 1a

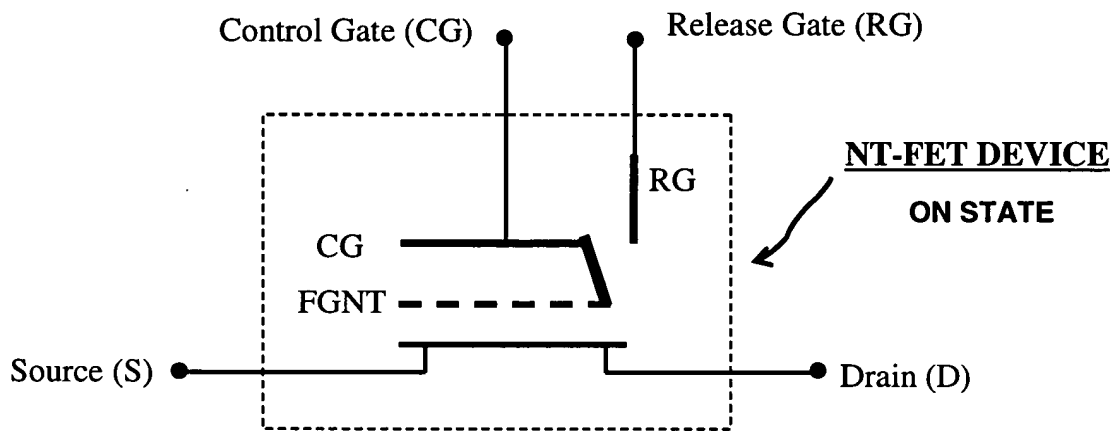


FIG 1b

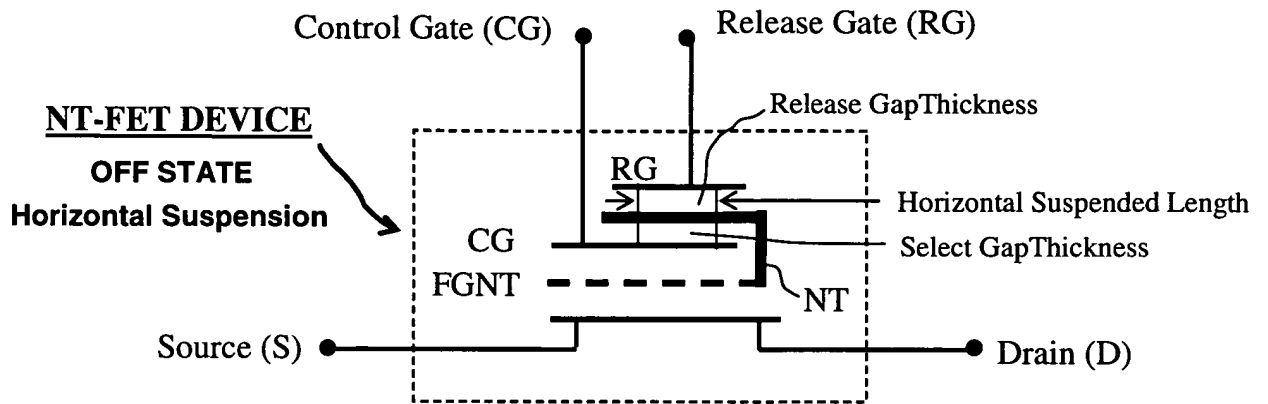


FIG 2a

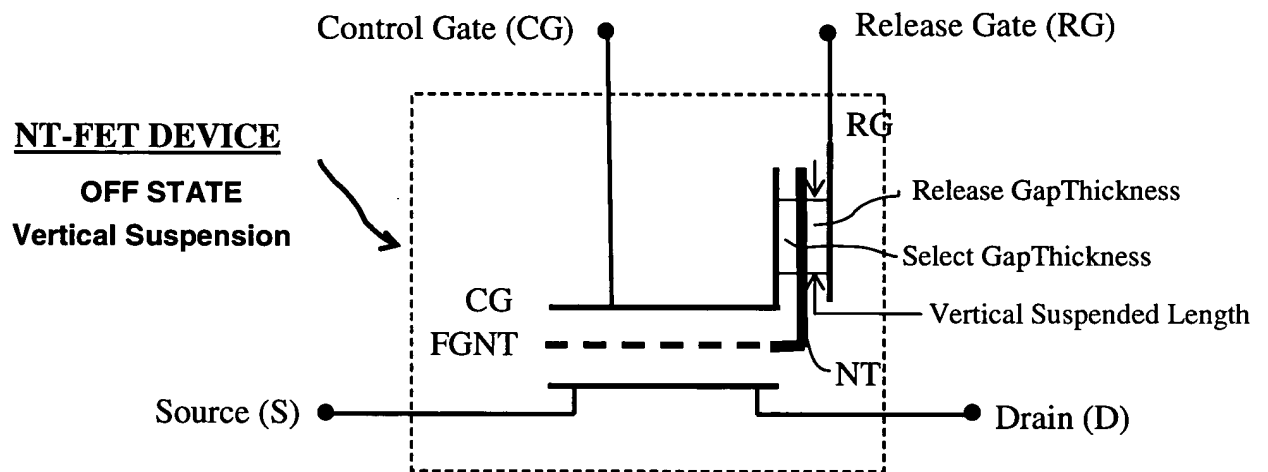


FIG 2b

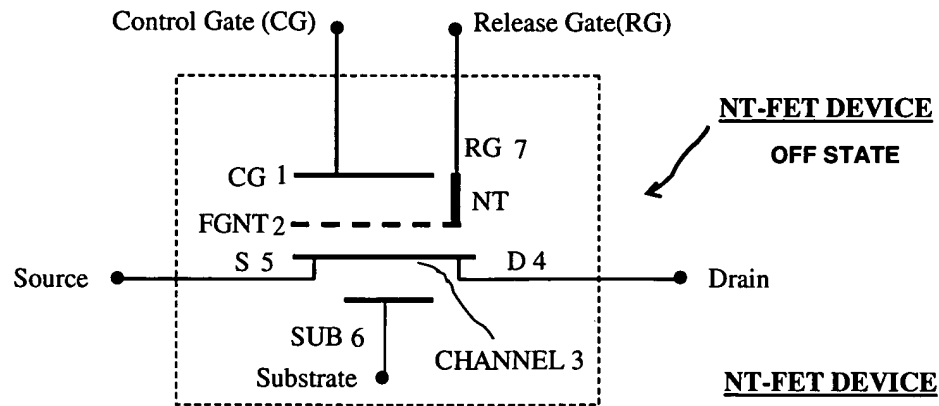


FIG 3a

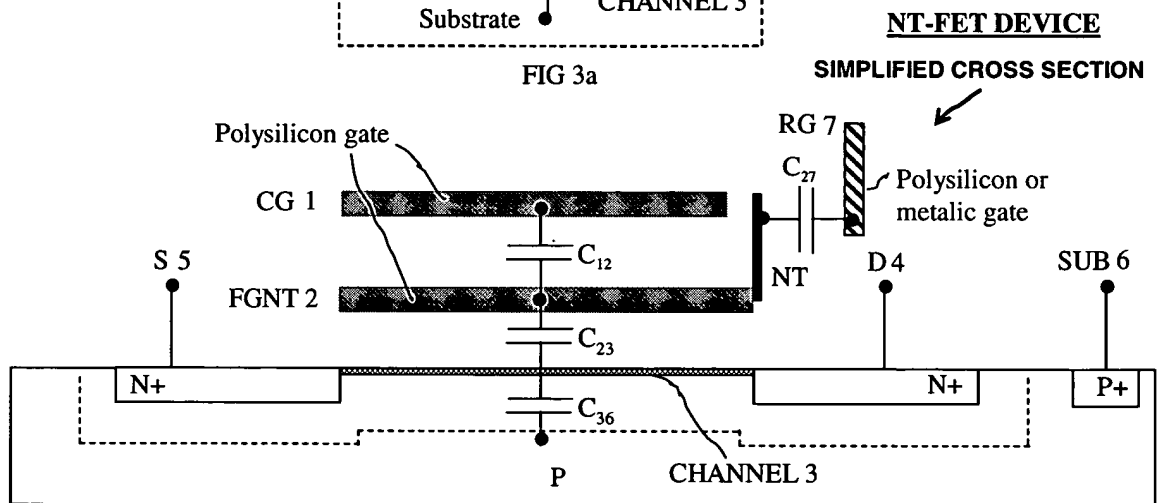
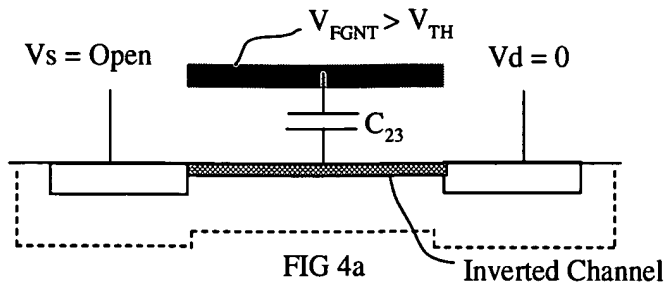
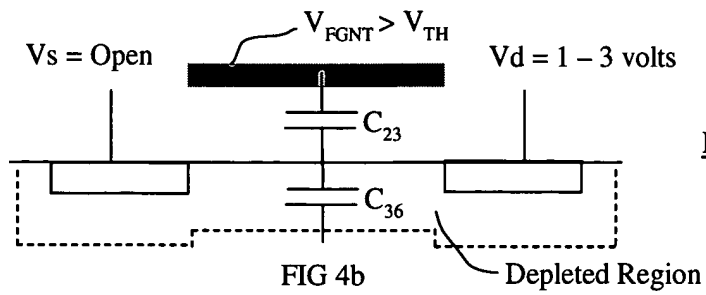


FIG 3b

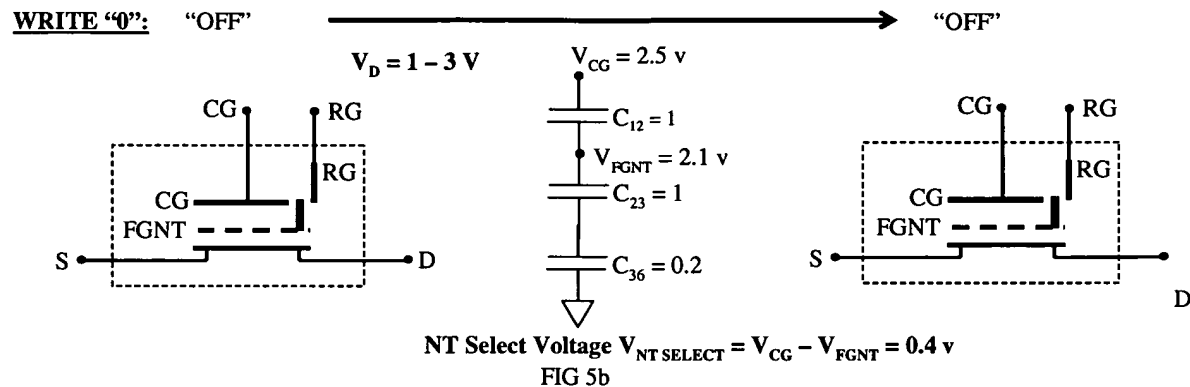
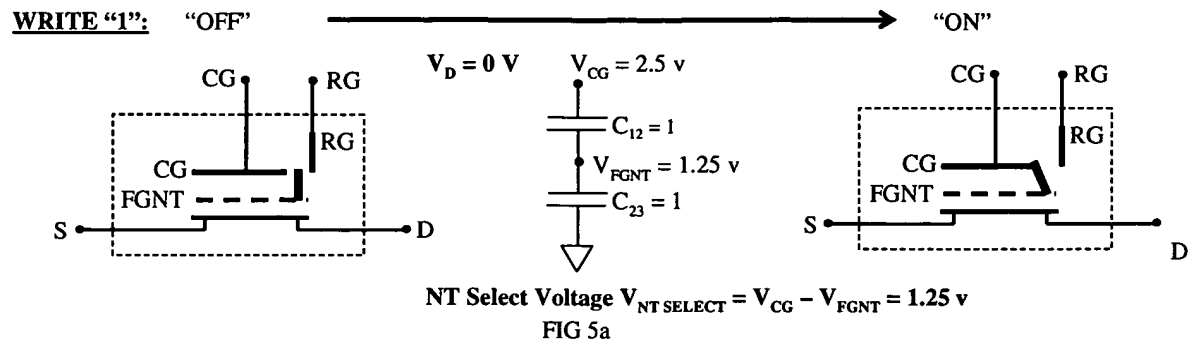
## CHANNEL REGION MODULATION



**Inverted Channel:** electrons at  $V = 0$  volts



**Depleted Channel:** electrons flow to positive terminal



**NET: SELECT VOLTAGE THRESHOLD RANGE  $> 0.4\text{ v}$  &  $< 1.25\text{ v}$**

Figure 6

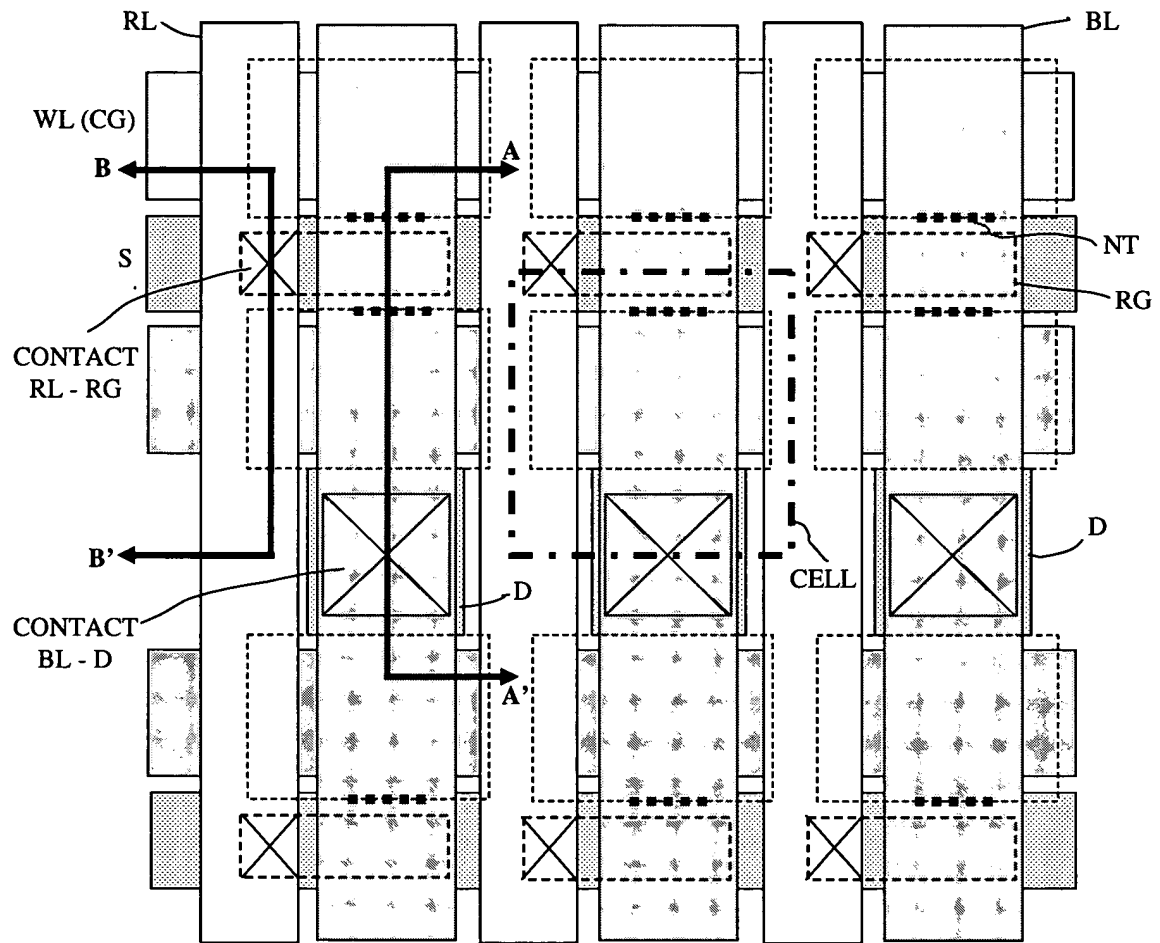


Figure 7

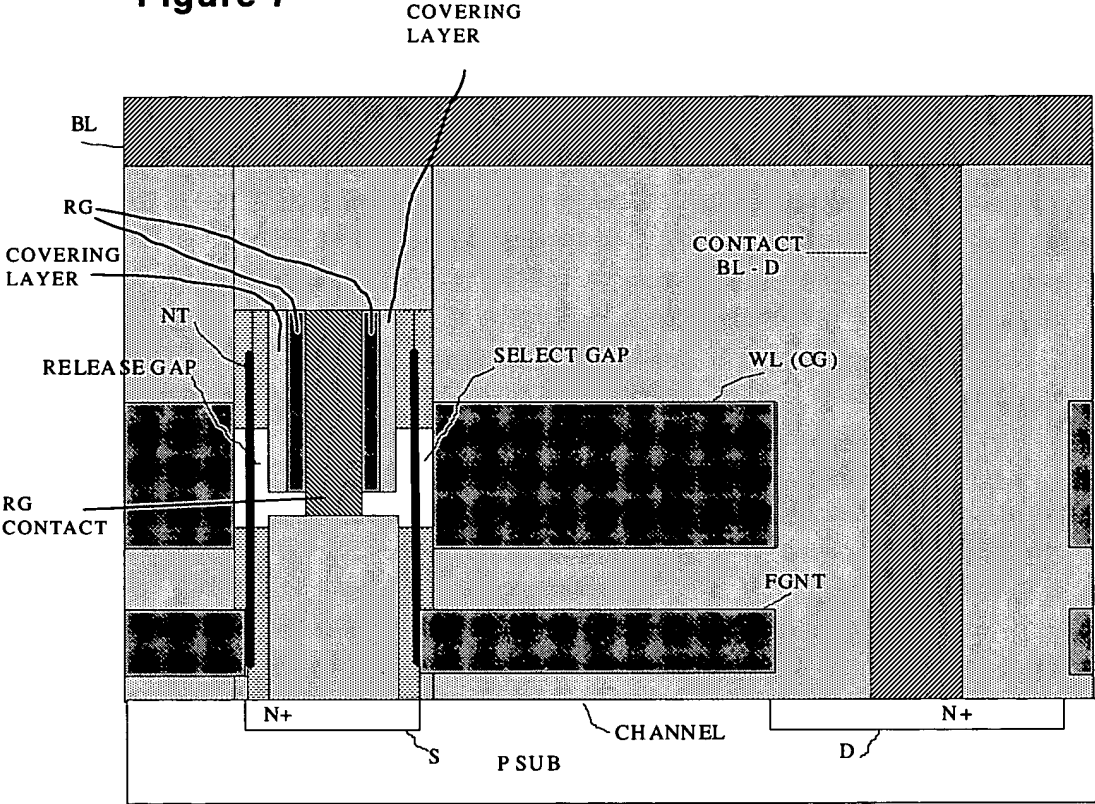


Figure 8

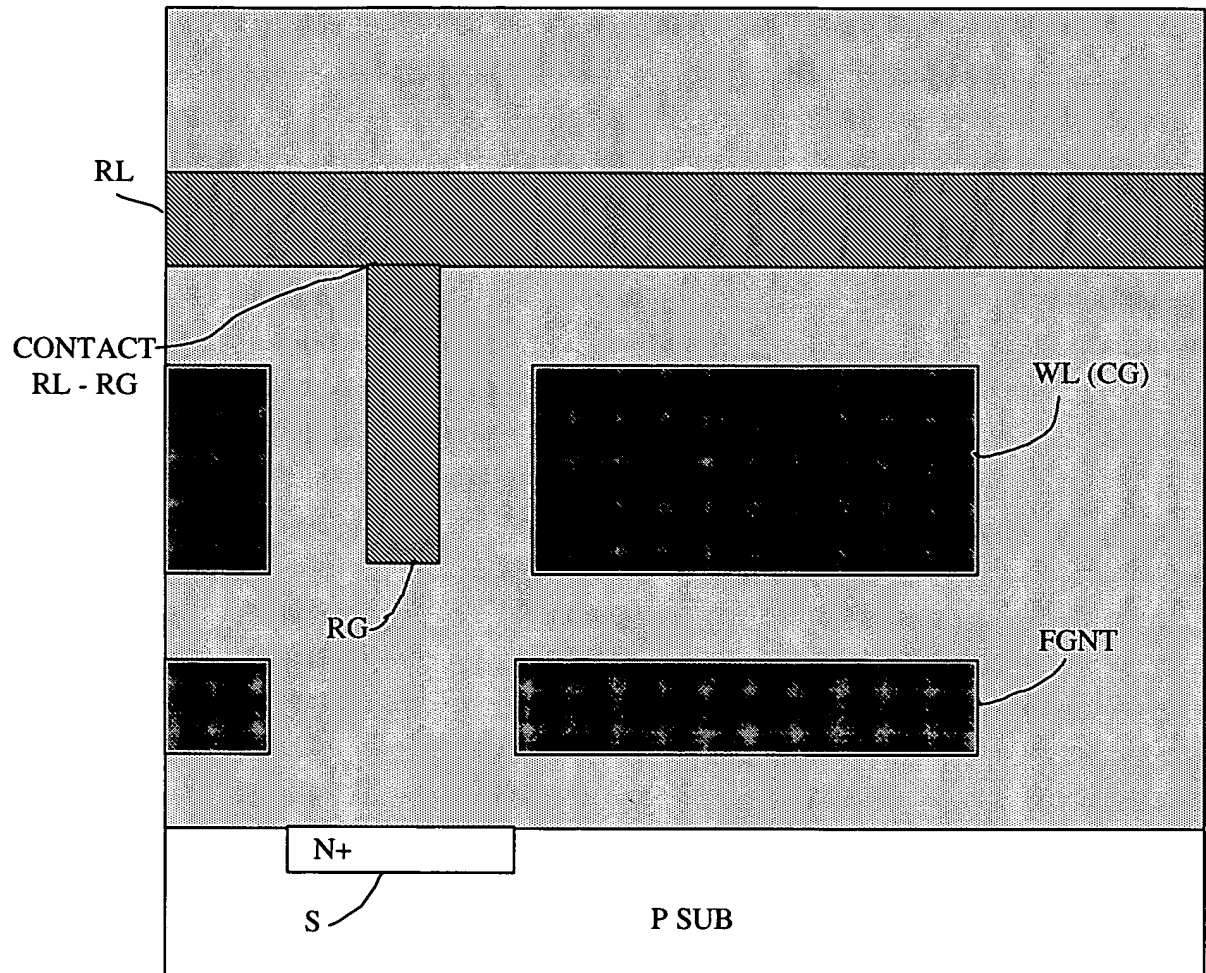




Figure 9

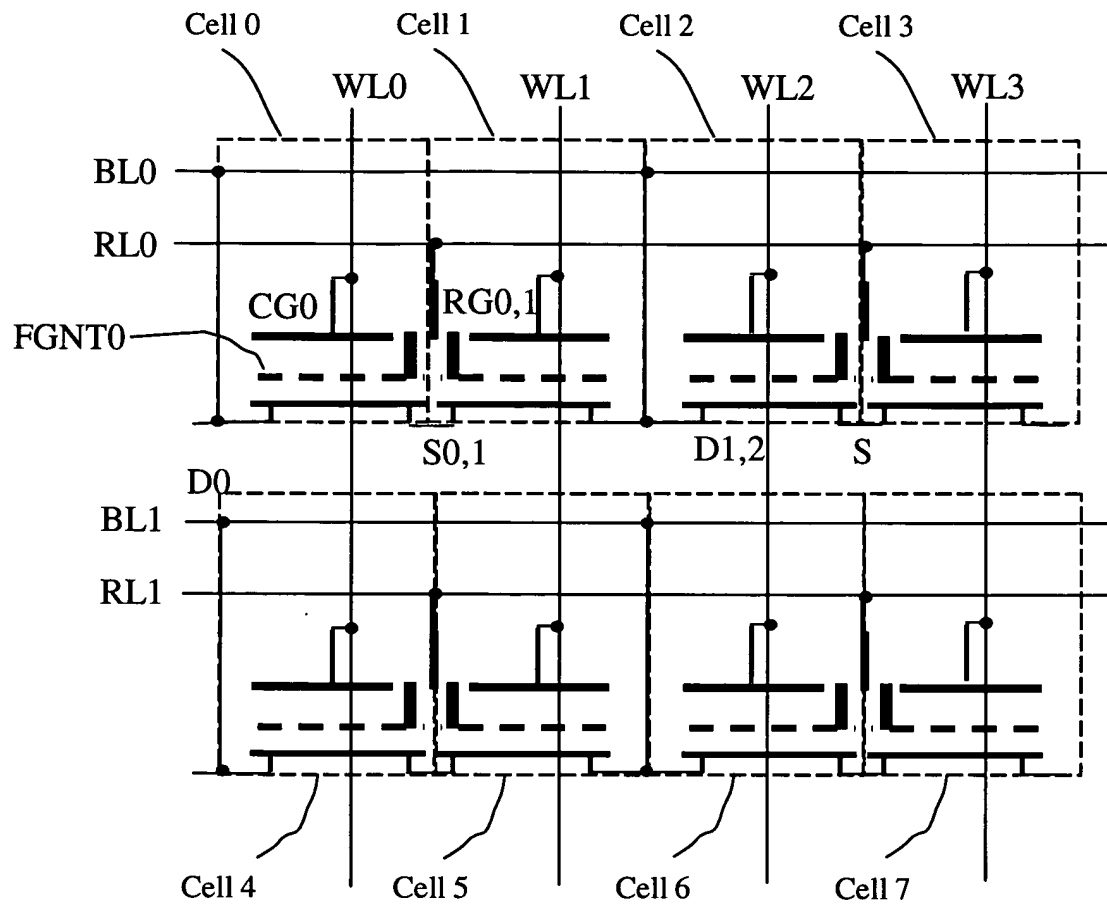


Figure 10

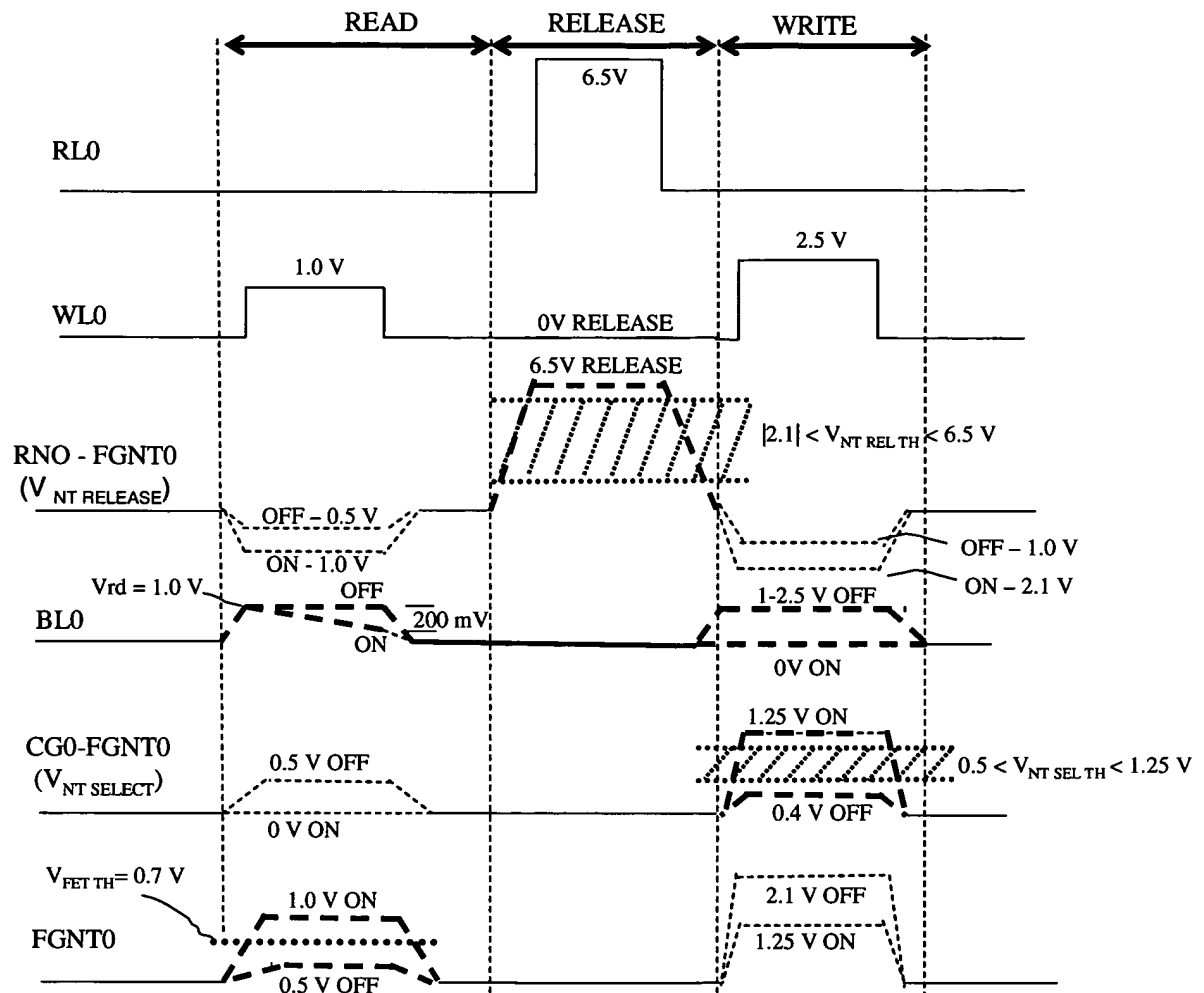


Figure 11

